

1631

#7

1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/637,086D

DATE: 01/09/2002

TIME: 14:38:52

Input Set : D:\pa_00304.rpt

Output Set: N:\CRF3\01082002\I637086D.raw

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ENTERED

1 <110> APPLICANT: Fincher, Karen L.
 2 La Rosa, Thomas J.
 3 McCarter, David W.
 4 Pear, Julie R.
 6 <120> TITLE OF INVENTION: Nucleic Acid Molecules And Other Molecules Associated With
 7 Plants
 9 <130> FILE REFERENCE: 38-21(51375)B
 11 <140> CURRENT APPLICATION NUMBER: US 09/637,086D
 12 <141> CURRENT FILING DATE: 2000-08-11
 14 <150> PRIOR APPLICATION NUMBER: US 60/149,881
 16 <151> PRIOR FILING DATE: 1999-08-19
 18 <160> NUMBER OF SEQ ID NOS: 52949
 20 <210> SEQ ID NO: 1
 21 <211> LENGTH: 226
 22 <212> TYPE: DNA
 23 <213> ORGANISM: Gossypium hirsutum
 25 <220> FEATURE:
 27 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-A10
 29 <400> SEQUENCE: 1
 31 caatagccaa gacattgact gatctgctgg ggctaaactg aagacgggag caggtctctg 60
 33 atacttcata aaccaactc ctagctacca gtctcagtgc gctctcatgg cagcgtcac 120
 35 atctggagat cagcatacct catcaactac taacgcctaa ctactagacc atacattgag 180
 37 accctgctga ggtagtcacc taaaatagag gcccggtatc tctata 226
 40 <210> SEQ ID NO: 2
 41 <211> LENGTH: 217
 42 <212> TYPE: DNA
 43 <213> ORGANISM: Gossypium hirsutum
 45 <220> FEATURE:
 47 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-A11
 49 <400> SEQUENCE: 2
 51 tcatgattat gaaccggaag cggtgtaacc tctgcctcaa ttacaaatct acttggggga 60
 53 taatacatta gcgcaaataa ctccatctcc gaagataaag gtgtacaaca ttacctccat 120
 55 cctcgaagaa cgtggccaat tcaccggcgt catcatgcta tggaaagcca cacaggctgc 180
 57 tgatcaacta atcaaccacc taaactcacc gcaccct 217
 60 <210> SEQ ID NO: 3
 61 <211> LENGTH: 199
 62 <212> TYPE: DNA
 63 <213> ORGANISM: Gossypium hirsutum
 65 <220> FEATURE:
 67 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-A9
 69 <400> SEQUENCE: 3
 71 ccaagcgtg tttcaccctg acttgctctt cttgtcctct ggcaaggaca catcagctca 60
 73 ctatattcct gcgccccgc ttaacgtggt caacatcact cgcctcctct acaaaagtgg 120
 75 ccaaacacca ctttcatcat gctcttgat gccacacaac tggctgatca actaaacatc 180
 77 tcagcttatc acaccgcta 199
 80 <210> SEQ ID NO: 4
 81 <211> LENGTH: 229

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82 <212> TYPE: DNA
83 <213> ORGANISM: Gossypium hirsutum
85 <220> FEATURE:
87 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-B10
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93 gatctttgat ggtgaggggtg ctccaggagc tcacgattga attgtaacac ggtgttaaatt 120
95 ctagaatcgc agatgtgacg ggggaaattt tacggaaaag aagggtctggg aaaataccac 180
97 gtgtcacaac ttctgtgcta tagaacatct ggaggcacca ctctcagt 229
100 <210> SEQ ID NO: 5
101 <211> LENGTH: 375
102 <212> TYPE: DNA
103 <213> ORGANISM: Gossypium hirsutum
105 <220> FEATURE:
107 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-B11
109 <400> SEQUENCE: 5
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113 tagaggcggg gagccaagta ccgacttggt caggttggtc gaaccacaa aggggccgat 120
115 gacaaggcct accgatgcgt gtttgaagaa gaagactaat acggcaaagt tgggatatca 180
117 ttatctaaag atctcatggg tatagctgga gaggttttat aatccaacat taccacaata 240
119 gggcctttgg tgctttcagg gtggggacaa ctctatcttt ttctcactct gttcgggcgt 300
121 taagtcttca acccccagtg gaagccttat attccagact tcaagctggc gtttgagcac 360
123 tttgcatcc atgct 375
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128 <212> TYPE: DNA
129 <213> ORGANISM: Gossypium hirsutum
131 <220> FEATURE:
133 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-B9
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139 tagctgacct tgatgatata attcgctaga ccctatgtgg aatggtcatt gtttcacttg 120
141 atgggtgtgc catacacatg gtacagtacc aggacactac tt 162
144 <210> SEQ ID NO: 7
145 <211> LENGTH: 310
146 <212> TYPE: DNA
147 <213> ORGANISM: Gossypium hirsutum
149 <220> FEATURE:
151 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-C11
153 <400> SEQUENCE: 7
155 ctcaattctg caattgcgag aagaaacgag acgggggaaa tccaatggat ttggaaacgg 60
157 cgaagaaata cttggagaaa ggagttgggg ctgacggcga tgacaagaac gcctcaacca 120
159 tcaatggcat gccttctaga ttcttcgaaa acttcatcat gcaaggcttc catgttgacc 180
161 aaatcgtaaa gggctcgagtc ctttgcacca tgaaagtccc tcctcgtttg ctgaacgctg 240
163 gtaattttctt gcacgggtgga gctactgcat cactgggtgga ttttggtgga tcagcggtta 300
165 tttacaccta 310
168 <210> SEQ ID NO: 8
169 <211> LENGTH: 286
170 <212> TYPE: DNA

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171 <213> ORGANISM: Gossypium hirsutum
173 <220> FEATURE:
175 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-C12
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181 tcgtttctta cccagagctg ttttaatgga ccttgaacca tgaaccatgg atagcttgct 120
183 tactgggtccg tacggacaac tttttagacc tgattactac atttttggtc aaaatggatc 180
185 taggaataac tcgggctaag ggtcattaca ctgaatgagc tccatcgatt gattcggttc 240
187 ttgatgttgt tcttaaagaa actaagaatt gtgattgctt acaaaag 286
190 <210> SEQ ID NO: 9
191 <211> LENGTH: 164
192 <212> TYPE: DNA
193 <213> ORGANISM: Gossypium hirsutum
195 <220> FEATURE:
197 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-C9
199 <400> SEQUENCE: 9
201 ccgctctaga actagagctt ccgcatccct ggagctgtac gaatccagca cgagctcaat 60
203 tgctgccagt agacaagacg caagggtgct ctccaattga tgcgagatgc tcatggccaa 120
205 ttccaactaa ctacttgatc aattcattcg atactacaca gctt 164
208 <210> SEQ ID NO: 10
209 <211> LENGTH: 337
210 <212> TYPE: DNA
211 <213> ORGANISM: Gossypium hirsutum
213 <220> FEATURE:
215 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-D10
217 <400> SEQUENCE: 10
219 aattcgagac gagttgcgac tgagttctgg accacattct tctggaagcg cgactactct 60
221 tcaactatgt acattccacg agataaggat accgatagac cctaattgat tgactttcgt 120
223 tgaatacgaa gccgaggacg tgggcgctta cgctatgcag atgaatgttg gccatcatac 180
225 tacatataac cgaaccttgc aagccacgat gctcatgcaa gagatgtcta tggaaatccc 240
227 tggcaattca tccatgtttt ctgcagagac acactacaga gcaaggtttt accagggtgt 300
229 agtgaacatc atagctaacc tagaggagct gaagaag 337
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233 <211> LENGTH: 362
234 <212> TYPE: DNA
235 <213> ORGANISM: Gossypium hirsutum
237 <220> FEATURE:
239 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-D11
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243 tagaactatg tggatctcct ggtctacatg atttcgagcc gatttggtac atctgtctga 60
245 actatacatt tggggtcata tctatataca caagaatttt cgaaactcat aatgttgtaa 120
247 tcaacgccct caatggatgt agaacgattg caaagcatta tgaaaagaac aatcacaaca 180
249 cacaattttt acatgaaaat tcttttgga aaaaactatg gactgatgaa taaaaattca 240
251 ctaaagttga aaaactaatg acacatgagg agtctaggct acatctatct aaagggtgaa 300
253 ataccctgtt ctaatcaaag tcatatgata gaagtacttt atggactcaa cttgtgcaat 360
255 at 362
258 <210> SEQ ID NO: 12
259 <211> LENGTH: 345
260 <212> TYPE: DNA

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261 <213> ORGANISM: Gossypium hirsutum
263 <220> FEATURE:
265 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-D12
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269 tcctgttcct aatcaagatg agaacactgt gtacggggag ccttctgcgc ctcaaccacc 60
271 acggttccat gtgcattcct ttgcatgac cctcactgtc tcagattcat gcacccatgg 120
273 tgggttttcg gcgctcatgc ggcattgcaga ttaatgtgtt ccaccattgg acatgtcact 180
275 gcaacctaca acccaggagt tggttgctta ggatatgcat ggcataagat ggcgattcca 240
277 gcatattttc aggggtgaac cactattgca cttgcttcaa agcggatgga gtgttcattgt 300
279 tagtcctccc aggtatgttt ctagggatgc tttaatatat tttag 345
282 <210> SEQ ID NO: 13
283 <211> LENGTH: 233
284 <212> TYPE: DNA
285 <213> ORGANISM: Gossypium hirsutum
287 <220> FEATURE:
289 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-D9
291 <400> SEQUENCE: 13
293 tggctgtaga tctagaacta gggatccct ggatctgttc gaatccagca cgcttatgca 60
295 cttagttaga agaaacgtga cgggggaagt ccaatggatt tggaaactgt gaataaatac 120
297 ttggagaaag gatattgggc tgacgggaat tacatgaact ccttaccat caatggactt 180
299 cttcattat tcttcgaaaa cttcatcatg catggtctct atgtagacca aat 233
302 <210> SEQ ID NO: 14
303 <211> LENGTH: 327
304 <212> TYPE: DNA
305 <213> ORGANISM: Gossypium hirsutum
307 <220> FEATURE:
309 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-E12
311 <400> SEQUENCE: 14
313 cgacattggt gacaatccct atctttgtcc taaagggcct ccttttcctc tccagctcct 60
315 cggctacacc aaatagcgt gcacatcact acctgttctc atcatcatgt gtccactcca 120
317 gctatccaag cctttgtttt cgcaccttt catctactc cggcccatcc aacaccctac 180
319 gatagttagc cctatccgcc gttaaagtca tctgtcccg tgcccgtaa gagtctaact 240
321 acttgtctac tagtgtgaca tagtacaaca tgagggaact agtcgcactg attgactgag 300
323 tggagcaaat agattagtct atggatg 327
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328 <212> TYPE: DNA
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331 <220> FEATURE:
333 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-E9
335 <400> SEQUENCE: 15
337 ctcatattgt ttgtatatct actcatattc ggtggtgtct acttacgcta gaatatttgt 60
339 aatacatcat gatgtcctaa acgcctacaa cggatgaaga atcactatgc tggcatttat 120
341 tataagaaaa tattgatcac acagacattt tcatgataat tctcctggga aaaaactgtc 180
343 ttctgattga ttaaaaatac actaagggt 209
346 <210> SEQ ID NO: 16
347 <211> LENGTH: 393
348 <212> TYPE: DNA
349 <213> ORGANISM: Gossypium hirsutum

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351 <220> FEATURE:

353 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-F10

355 <400> SEQUENCE: 16

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359 gcatgacttt attaaatgca taacacatag tgcattgtcac aattaaaaga tgttgattaa    120
361 taatgcaaaa cattaattaa agatgcatat aataaacaag acataattaa aagctgaaaa    180
363 attaattaaa ctaaacaac aaccacatgc aaacattgt atggacatgg gatgttattt    240
365 tgggtccaat aagggttgga catctcatgt tcagcccaaa ctgtctgaat taggcccac    300
367 atcgaccctt taaacttctt tgatctagca catgttataa acccgatgag aatttcaatt    360
369 ggatcctctc ttgaaatagg caacttagag gtt                                393

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372 <210> SEQ ID NO: 17

373 <211> LENGTH: 338

374 <212> TYPE: DNA

375 <213> ORGANISM: Gossypium hirsutum

377 <220> FEATURE:

379 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-F11

381 <400> SEQUENCE: 17

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383 aaaatgtgag cattgaagac accaaaggtc ggcattgagg tcgtttgtga agggattaaa    60
385 gctaccggcc cgaaggcaaa atcagcaacc acagcttcaa cttctaattgc aaaatgtaag    120
387 gttgatttga gactcaagat ctggtaattg actatctgat cgacgagaat attttgagaa    180
389 agagaatcaa tgggtgaagaa aaaggtttgt tgtttatgat attttattac tcctgttatg    240
391 gttgttattt tcttaaagat gtgtcgatat ttttttatgg aggcaatatg tttgcaaatt    300
393 gggatgatctg atcgataaag gtatagaaaa atgtcatg                                338

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396 <210> SEQ ID NO: 18

397 <211> LENGTH: 395

398 <212> TYPE: DNA

399 <213> ORGANISM: Gossypium hirsutum

401 <220> FEATURE:

403 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-F12

405 <400> SEQUENCE: 18

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407 gaaaaacgct gcttgacagt atgtcatcat ccgataagcc agaattagtt gaaagggatg    60
409 ttaaggacaa ggtggatgac aaagaagaca acagtggatt tatagacaag gtcaagggtt    120
411 tcattcatga cattggtgag aagatcgagg aaacaatcgg ctttggcaag cctactgcag    180
413 atgtagctga gattcacctc ccttgatca atcttgagaa agcagaaatt gtcgttgatg    240
415 tcctcataaa gaacccaaac cctgttccaa tccccctcgt cgacattgac tacctcattg    300
417 aaagtgatgg tagaaaactc ctttcaagct tgattccaga tgctggaacc atccatgctc    360
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423 <211> LENGTH: 200

424 <212> TYPE: DNA

425 <213> ORGANISM: Gossypium hirsutum

427 <220> FEATURE:

429 <223> OTHER INFORMATION: Clone ID: LIB3083-001-Q1-L1-F9

431 <400> SEQUENCE: 19

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433 gttacataat gcatgtcata atgtatgatg tactcgggaa tctcatgaga gttacatatt    60
435 gcatgactct tttaattgca aaacgcatta cgcattgtgac ggtaactaga tgcagggcaa    120
437 tattgccaac tgttacctac cgttgctgac cgtataaccag acctgactct aagctgtctt    180
439 cctaattggg ctttccactc                                200

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442 <210> SEQ ID NO: 20

Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

→

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L:1183 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:49
L:1953 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:82
L:2523 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:105
L:3807 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:156
L:4455 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:183
L:4731 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:195
L:4737 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:195
L:4785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:197
L:4815 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:198
L:4959 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:204
L:5055 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:208
L:5109 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:210
L:5265 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:217
L:5467 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:225
L:5499 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:226
L:5541 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:228
L:5739 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236
L:5743 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:236
L:5955 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:245
L:6007 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:247
L:6289 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:259
L:6319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:260
L:6321 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:260
L:6503 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:268
L:7225 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:299
L:7375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:305
L:7475 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:309
L:7727 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:319
L:8209 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:339
L:8211 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:339
L:8395 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:346
L:8545 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:352
L:8881 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:366
L:8931 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:368
L:9077 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:374
L:9257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:382
L:9327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:385
L:9375 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:387
L:9401 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:388
L:9425 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:389
L:9453 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:390
L:9785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:404
L:10481 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:434
L:11411 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:475
L:11913 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:496
L:12027 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:501
L:12125 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:505
L:12251 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:510

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L:12389 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:516

L:12429 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:518